

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
27 January 2005 (27.01.2005)

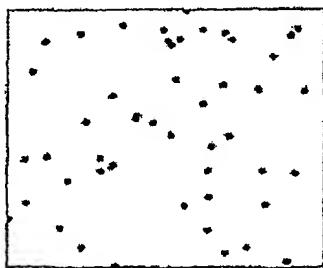
PCT

(10) International Publication Number
WO 2005/008259 A2

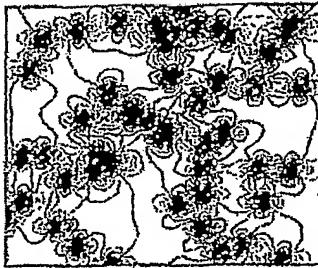
(51) International Patent Classification⁷: G01R
 (21) International Application Number: PCT/US2004/022163
 (22) International Filing Date: 8 July 2004 (08.07.2004)
 (25) Filing Language: English
 (26) Publication Language: English
 (30) Priority Data: 60/485,502 8 July 2003 (08.07.2003) US
 (71) Applicant (for all designated States except US): NEW YORK UNIVERSITY [US/US]; 550 First Avenue, New York, NY 10016 (US).
 (72) Inventors; and
 (75) Inventors/Applicants (for US only): JENSEN, Jens [US/US]; 348 Central Park Avenue, Apt. C-15, Scarsdale, NY 10583-1328 (US). HELPERN, Joseph, A. [US/US]; 51 Angola Road, Cornwall, NY 12518 (US). JOHNSON, Glyn [US/US]; 14 West 11th Street, New York, NY 10011
 (74) Agent: DORSEY & WHITNEY L.L.P.; 250 Park Avenue, New York, NY 10177 (US).
 (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
 (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: METHOD, SYSTEM AND SOFTWARE ARRANGEMENT, FOR MEASURING MAGNETIC FIELD CORRELATION

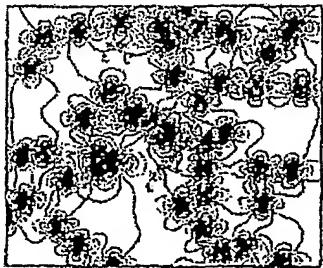


(a)

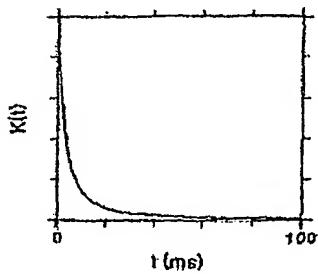


↑ z

(b)



(c)



(d)

(57) Abstract: Methods, systems, software arrangements and storage medium for measuring the magnetic field correlation function ("MFC"), and more particularly, to methods for measuring the magnetic field correlation function utilizing asymmetric spin echoes. Asymmetric Dual Spin Echo Sequences ("ADSE") and Echo Planar Imaging Asymmetric Dual Spin Echo Sequences ("EPI-ADSE") may be employed to apply multiple echoes to a sample and acquire data from which the MFC may be determined.

WO 2005/008259 A2



FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- *without international search report and to be republished upon receipt of that report*